



DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY WASHINGTON
1411 PARSONS AVENUE SE STE. 303
WASHINGTON NAVY YARD DC 20374-5003

5090
Ser N4/220
September 05, 2017

Ms. Karen Crumlish
Chief, Drinking Water Branch (3WP21)
EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: REVISED TOTAL COLIFORM REPORT, WASHINGTON NAVY YARD

Enclosed is the Revised Total Coliform Report for the monitoring period August 2017 at the Washington Navy Yard.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or email: dane.bowker@navy.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "Quang Nguyen", is positioned above the typed name.

Quang Nguyen, PE
Acting Installation Environmental
Program Director
By direction of the Commanding Officer

Enclosures: 1. Total Coliform Report
2. Certificate of Analysis

**Washington Navy Yard
August Sampling Report**

PWS: DC0000003

First Half
Sample Date: 8/2/2017
Total Samples: 15
Total Samples Negative: 15
Total Samples Positive: 0

Second Half
Sample Date: 8/16/2017

Sample Number	Sample Point Identifier	Sample Point Name	Collector Name	Compliance Indicator	Sample Collection		Lab Received	Lab Analysis		Sample Comments	Total Chlorine Residual	Free Chlorine Residual	pH	Temp (C)	Total Coliform Analysis	E. Coliform Analysis
					Date	Time		Date	Time		Value (mg/L)	Value (mg/L)			Result	Result
17H0356-01	WNY-184	BLDG 184*	Guyan Kularthne	Y	8/2/2017	839	8/2/2017	8/3/2017	1422		0.12		7.76	26.8	N	N
17H0356-02	WNY-211	BLDG 211	Guyan Kularthne	Y	8/2/2017	905	8/2/2017	8/3/2017	1422		2.80		7.90	24.9	N	N
17H0356-03	WNY-123	BLDG 123	Guyan Kularthne	Y	8/2/2017	938	8/2/2017	8/3/2017	1422		1.12		7.88	24.9	N	N
17H0356-04	WNY-111	BLDG 111	Guyan Kularthne	Y	8/2/2017	1015	8/2/2017	8/3/2017	1422		3.10		7.89	26.0	N	N
17H0356-05	WNY-105	BLDG 105	Guyan Kularthne	Y	8/2/2017	1115	8/2/2017	8/3/2017	1422		3.00		7.88	25.4	N	N
17H0356-06	WNY-22	BLDG 22	Guyan Kularthne	Y	8/2/2017	1045	8/2/2017	8/3/2017	1422		3.10		7.85	25.6	N	N
17H0356-07	WNY-208	BLDG 208	Guyan Kularthne	Y	8/2/2017	1251	8/2/2017	8/3/2017	1422		2.90		7.90	25.8	N	N
17H1221-01	WNY-33	BLDG 33	Guyan Kularthne	Y	8/16/2017	1003	8/16/2017	8/17/2017	1130		3.10		7.91	24.5	N	N
17H1221-02	WNY-122	BLDG 122	Guyan Kularthne	Y	8/16/2017	935	8/16/2017	8/17/2017	1130		3.40		7.89	24.8	N	N
17H1221-03	WNY-166	BLDG 166	Guyan Kularthne	Y	8/16/2017	816	8/16/2017	8/17/2017	1130		3.10		7.69	24.9	N	N
17H1221-04	WNY-220	BLDG 220**	Guyan Kularthne	Y	8/16/2017	1130	8/16/2017	8/17/2017	1130		2.30		7.93	25.9	N	N
17H1221-05	WNY-118	BLDG 118	Guyan Kularthne	Y	8/16/2017	1030	8/16/2017	8/17/2017	1130		3.00		7.87	24.9	N	N
17H1221-06	WNY-175	BLDG 175	Guyan Kularthne	Y	8/16/2017	1105	8/16/2017	8/17/2017	1130		0.37		7.65	24.7	N	N
17H1221-07	WNY-212	BLDG 212	Guyan Kularthne	Y	8/16/2017	908	8/16/2017	8/17/2017	1130		2.60		7.87	25.1	N	N
17H1221-08	WNY-218	BLDG 218	Guyan Kularthne	Y	8/16/2017	839	8/16/2017	8/17/2017	1130		2.90		7.89	25.6	N	N

* Low chlorine reading in WNY-184. HPC conducted - results were ND

** Access issues to BLDG 183, site switched to BLDG 220



Microbac Laboratories, Inc.

Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
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COVER LETTER

Kosala De Silva
Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045
RE: WNY

August 07, 2017
Report No.: 17H0356

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 08/02/2017 15:45.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

8/7/2017

Final report reviewed by:

DRAFT REPORT/DATA SUBJECT TO CHANGE

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact DRAFT REPORT/DATA SUBJECT TO CHANGE at 410-633-1800. You may also contact Trevor Boyce, President at trevor.boyce@microbac.com. Any complaint about the quality of reported results may be referred to the accrediting authority if such complaints cannot be resolved directly with the customer.



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Baltimore Division

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-184	17H0356-01	Drinking Water	Grab	08/02/2017 08:39	08/02/2017 15:45
WNY-211	17H0356-02	Drinking Water	Grab	08/02/2017 09:05	08/02/2017 15:45
WNY-123	17H0356-03	Drinking Water	Grab	08/02/2017 09:38	08/02/2017 15:45
WNY-111	17H0356-04	Drinking Water	Grab	08/02/2017 10:15	08/02/2017 15:45
WNY-105	17H0356-05	Drinking Water	Grab	08/02/2017 11:15	08/02/2017 15:45
WNY-22	17H0356-06	Drinking Water	Grab	08/02/2017 10:45	08/02/2017 15:45
WNY-208	17H0356-07	Drinking Water	Grab	08/02/2017 12:51	08/02/2017 15:45

DRAFT REPORT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Baltimore Division

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-184

17H0356-01 (Drinking Water) Sampled: 08/02/2017 08:39; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst:	NA	pH:	7.76	Flow (g/min):	NA	Res. Cl (mg/L):	0.12	GW Elev.(ft):	NA
Temp. (C):	26.8	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-211

17H0356-02 (Drinking Water) Sampled: 08/02/2017 09:05; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.90	Flow (g/min):	NA	Res. Cl (mg/L):	2.8	GW Elev.(ft):	NA
Temp. (C):	24.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-123

17H0356-03 (Drinking Water) Sampled: 08/02/2017 09:38; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.88	Flow (g/min):	NA	Res. Cl (mg/L):	1.12	GW Elev.(ft):	NA
Temp. (C):	24.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-111

17H0356-04 (Drinking Water) Sampled: 08/02/2017 10:15; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

Field Analysis

Analyst:	NA	pH:	7.89	Flow (g/min):	NA	Res. Cl (mg/L):	3.1	GW Elev.(ft):	NA
Temp. (C):	26.0	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-105

17H0356-05 (Drinking Water) Sampled: 08/02/2017 11:15; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

Field Analysis

Analyst:	NA	pH:	7.88	Flow (g/min):	NA	Res. Cl (mg/L):	3.0	GW Elev.(ft):	NA
Temp. (C):	25.4	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-22

17H0356-06 (Drinking Water) Sampled: 08/02/2017 10:45; Type: Grab

Analyte	Result	Reporting		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit								

Field Analysis

Analyst:	NA	pH:	7.85	Flow (g/min):	NA	Res. Cl (mg/L):	3.1	GW Elev.(ft):	NA
Temp. (C):	25.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
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Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

WNY-208

17H0356-07 (Drinking Water) Sampled: 08/02/2017 12:51; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst:	NA	pH:	7.90	Flow (g/min):	NA	Res. Cl (mg/L):	2.9	GW Elev.(ft):	NA
Temp. (C):	25.8	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	080217 1905	080317 1422	VAS	SM 9223B Colilert-18

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Baltimore Division

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

Project Requested Certification(s):

A2LA (Biology)
A2LA (Environmental)
State of Maryland (Drinking Water)

Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

Certification List

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac Laboratories, Inc. - Baltimore			
A2LA1	A2LA (Biology)	410.02	04/30/2019
A2LA2	A2LA (Environmental)	410.01	04/30/2019
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2018
CPSC	CPSC Testing of Childrens Products and Jewelry	410.01	04/30/2019
Pb	Environmental Lead (ELLAP)	410.01	04/30/2019
FL	Florida - NELAC	E871126	06/30/2018
MD	State of Maryland (Drinking Water)	109	06/30/2018
WV	West Virginia	054	08/31/2017
Microbac Laboratories, Inc. - Richmond			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2018

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H0356
Reported: 08/07/2017 15:07

Qualifiers/Notes and Definitions

General Definitions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Microbac Laboratories, Inc.
Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

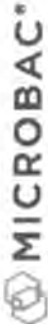
Phone: 410-633-1800
Fax: 410-633-6553
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Cooler Receipt Log

Cooler ID:	Default Cooler	Cooler Temp:	5.50°C	Work Order:	17H0356
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Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:



Microbac Laboratories Inc., Baltimore Division
2101 Van Daman St, Baltimore, MD 21224
Tel: 410-633-1800
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Instructions for completing the Chain of Custody Record on back.

Chain of Custody Record

Page 1 of 1

Customer Name: Inspection Experts Inc. Address: 9220 Rumsey Road, Bay #5 Columbia, MD 21045		Project Information Name: WNY Number: 1511-223 PO:		Turn Around Time <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Agency: <input type="text"/>		Compliance <input type="radio"/> Yes <input type="radio"/> No	
Contact Name: Kosala De Silva Number: 410-715-3939 Email: kosala@ieinc.net		Sampler Name: Gayan Kularathne Phone: 240-252-0841 Cert ID: 0697GK		Report Options <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email kosala@ieinc.net <input type="checkbox"/> Fax		QC Package <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III** <input type="radio"/> Level IV**	

17H0356

Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis			Comments		
								TC P/A SM9223B	HPC SM9215S	Total Chlorine (mg/L)			
WNY-184	DW	X			08/02/17	0839	1	X		7.76	26.8	0.12	
WNY-211	DW	X			08/02/17	0905	1	X		7.90	24.9	2.8	
WNY-123	DW	X			08/02/17	0938	1	X		7.88	24.9	1.12	
WNY-111	DW	X			08/02/17	1015	1	X		7.89	26.0	3.1	
WNY-105	DW	X			08/02/17	1115	1	X		7.88	25.4	3.0	
WNY-22	DW	X			08/02/17	1045	1	X		7.85	25.6	3.1	
WNY-208	DW	X			08/02/17	1251	1	X		7.90	25.8	2.9	

Number of Containers:	Possible Hazard Identification	Sampled By (signature)	Relinquished By (signature)	Relinquished By (signature)	Sample Disposition		Date/Time	Received By (signature)	Printed Name/Affiliation
					[X] Dispose as appropriate	[] Return			
9	Hazardous						08/02/17 1545		
Cooler Number:									
Temp upon receipt (°C): 5.5°C									
Sample Received on Ice <input checked="" type="checkbox"/>									
Refrigerated from Client (Yes/No)									
Radiation Scan Acceptable Yes/No									
* Please notify lab prior to drop off. ** Surcharge May Apply to add'l QC Packages **** Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)									

Page 1 of 1 rev.12/11/12

Instructions for completing the Chain of Custody Record

Chain of Custody Record

Customer Name: Inspection Experts Inc. Address: 9220 Rumsey Road, Bay #5 Columbia, MD 21045		Project Information Name: WNY Number: 1511-223 PO:		Turn Around Time <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Needed By:		Compliance <input type="radio"/> Yes <input type="radio"/> No Agency:	
Contact Name: Kosala De Silva Number: 410-715-3939 Email: kosala@ieinc.net		Sampler Name: Gayan Kularathne Phone: 240-252-0841 Cert ID:*** 0697GK		Report Options <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email kosala@ieinc.net <input type="checkbox"/> Fax		QC Package <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III**	

Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis					Comments	
								TC P/A SM9223B	HPC SK 92155	pH	Temp (°C)	Total Chlorine (mg/L)		
WNY-184	DW	X			08/02/17	0839	1	X	X		7.76	26.8	0.12	
WNY-211	DW	X			08/02/17	0905	1	X			7.90	24.9	2.8	
WNY-123	DW	X			08/02/17	0938	1	X			7.88	24.9	1.12	
WNY-111	DW	X			08/02/17	1015	1	X			7.89	26.0	3.1	
WNY-105	DW	X			08/02/17	1115	1	X			7.88	25.4	3.0	
WNY-22	DW	X			08/02/17	1045	1	X			7.85	25.6	3.1	
WNY-208	DW	X			08/02/17	1251	1	X			7.90	25.8	2.9	
Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive Sample Disposition <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Other														

Possible Hazard Identification		<input type="checkbox"/> Hazardous		<input type="checkbox"/> Non-Hazardous		<input type="checkbox"/> Radioactive		Sample Disposition		<input checked="" type="checkbox"/> Dispose as appropriate		<input type="checkbox"/> Return		<input type="checkbox"/> Archive	
Number of Containers: 9		Sampled By (signature)		Printed Name/Affiliation		Date/Time		Received By (signature)		Printed Name/Affiliation					
Cooler Number:				Guyen K. L. L. L.		08/02/17 1545				H. W. Dillingen					
Temp upon receipt(°C): 5.5°C		Relinquished By (signature)		Printed Name/Affiliation		Date/Time		Received By (signature)		Printed Name/Affiliation					
Sample Received on Ice or Refrigerated from Client Yes / No		Relinquished By (signature)		Printed Name/Affiliation		Date/Time		Received for Lab By (signature)		Printed Name/Affiliation					
Radiation Scan Acceptable Yes / No															

* Please notify lab prior to drop off.
 ** Syracuse: Main front entrance

WHITE - ORIGINAL LAB YELLOW - RECEIPT

* Please notify lab prior to drop off.

**** Surcharge May Apply to add'l QC Packages**

*** Sampler certification ID needed for some agencies.

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rev. 121112

*** Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) _____

Instructions for completing the Chain of Custody Record

17H0356

CD 2/2/17



Microbac Laboratories, Inc.

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COVER LETTER

Kosala De Silva
Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045
RE: WNY

August 17, 2017
Report No.: 17H1221

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 08/16/2017 13:05.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

8/17/2017

Final report reviewed by:

Coretta S. Davis/Project Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Coretta S. Davis/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at trevor.boyce@microbac.com. Any complaint about the quality of reported results may be referred to the accrediting authority if such complaints cannot be resolved directly with the customer.



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Baltimore Division

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-33	17H1221-01	Drinking Water	Grab	08/16/2017 10:03	08/16/2017 13:05
WNY-122	17H1221-02	Drinking Water	Grab	08/16/2017 09:35	08/16/2017 13:05
WNY-166	17H1221-03	Drinking Water	Grab	08/16/2017 08:16	08/16/2017 13:05
WNY-220	17H1221-04	Drinking Water	Grab	08/16/2017 11:30	08/16/2017 13:05
WNY-118	17H1221-05	Drinking Water	Grab	08/16/2017 10:30	08/16/2017 13:05
WNY-175	17H1221-06	Drinking Water	Grab	08/16/2017 11:05	08/16/2017 13:05
WNY-212	17H1221-07	Drinking Water	Grab	08/16/2017 09:08	08/16/2017 13:05
WNY-218	17H1221-08	Drinking Water	Grab	08/16/2017 08:39	08/16/2017 13:05

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-33

17H1221-01 (Drinking Water) Sampled: 08/16/2017 10:03; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.91	Flow (g/min):	NA	Res. Cl (mg/L):	3.1	GW Elev.(ft):	NA
Temp. (C):	24.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-122

17H1221-02 (Drinking Water) Sampled: 08/16/2017 09:35; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.89	Flow (g/min):	NA	Res. Cl (mg/L):	3.4	GW Elev.(ft):	NA
Temp. (C):	24.8	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-166

17H1221-03 (Drinking Water) Sampled: 08/16/2017 08:16; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.69	Flow (g/min):	NA	Res. Cl (mg/L):	3.1	GW Elev.(ft):	NA
Temp. (C):	24.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-220

17H1221-04 (Drinking Water) Sampled: 08/16/2017 11:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst:	NA	pH:	7.93	Flow (g/min):	NA	Res. Cl (mg/L):	2.3	GW Elev.(ft):	NA
Temp. (C):	25.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-118

17H1221-05 (Drinking Water) Sampled: 08/16/2017 10:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst:	NA	pH:	7.87	Flow (g/min):	NA	Res. Cl (mg/L):	3.0	GW Elev.(ft):	NA
Temp. (C):	24.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-175

17H1221-06 (Drinking Water) Sampled: 08/16/2017 11:05; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst:	NA	pH:	7.65	Flow (g/min):	NA	Res. Cl (mg/L):	0.37	GW Elev.(ft):	NA
Temp. (C):	24.7	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-212

17H1221-07 (Drinking Water) Sampled: 08/16/2017 09:08; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.87	Flow (g/min):	NA	Res. Cl (mg/L):	2.6	GW Elev.(ft):	NA
Temp. (C):	25.1	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

WNY-218

17H1221-08 (Drinking Water) Sampled: 08/16/2017 08:39; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Field Analysis

Analyst:	NA	pH:	7.89	Flow (g/min):	NA	Res. Cl (mg/L):	2.9	GW Elev.(ft):	NA
Temp. (C):	25.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp. (°C):	NA

Microbac Laboratories, Inc. - Baltimore

Microbiology

Coliform, Total	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18
E. Coli	Negative	per 100ml	1.0	081617 1500	081717 1130	ABA	SM 9223B Colilert-18

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

Project Requested Certification(s):

A2LA (Biology)
State of Maryland (Drinking Water)

Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

Certification List

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac Laboratories, Inc. - Baltimore			
A2LA1	A2LA (Biology)	410.02	04/30/2019
A2LA2	A2LA (Environmental)	410.01	04/30/2019
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2018
CPSC	CPSC Testing of Childrens Products and Jewelry	410.01	04/30/2019
Pb	Environmental Lead (ELLAP)	410.01	04/30/2019
FL	Florida - NELAC	E871126	06/30/2018
MD	State of Maryland (Drinking Water)	109	06/30/2018
WV	West Virginia	054	08/31/2017
Microbac Laboratories, Inc. - Richmond			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2018

Microbac Laboratories, Inc. - Baltimore

Coretta S. Davis, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 17H1221
Reported: 08/17/2017 12:34

Qualifiers/Notes and Definitions

General Definitions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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Cooler Receipt Log

Cooler ID:	Default Cooler	Cooler Temp:	0.30°C	Work Order:	17H1221
-------------------	----------------	---------------------	--------	--------------------	---------

Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:



Microbac Laboratories Inc., Baltimore Division
2101 Van Deman St, Baltimore, MD 21224
Tel: 410-633-1800
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Instructions for completing the Chain of Custody Record on back.

Chain of Custody Record

Page 1 of 1

Customer Name: <u>Inspection Experts Inc.</u> Address: <u>9220 Rumsey Road, Bay #5</u> <u>Columbia, MD 21045</u>	Project Information Name: <u>WNY</u> Number: <u>15-0011</u> PO: <u></u>	Turn Around Time <input checked="" type="radio"/> Standard <input type="radio"/> RUSH Needed By: <u></u>	Compliance <input type="radio"/> Yes <input type="radio"/> No Agency: <u></u>
Contact Name: <u>Kosala De Silva</u> Number: <u>410-715-3939</u> Email: <u>kosala@ieinc.net</u>	Sampler Name: <u>Gayan Kularathne</u> Phone: <u>240-252-0841</u> Cert ID: *** <u>0697GK</u>	Report Options <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email <u>kosala@ieinc.net</u> <input type="checkbox"/> Fax <u></u>	QC Package <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III** <input type="radio"/> Level IV**

Client Sample ID	Matrix***	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis				Comments
								TC/EC P/A SM 9223B	pH	Total Cl (mg/L)	Temperature (°C)	
WNY-33	DW	X			08/16/17	1003	1	X	7.91	3.1	24.5	CL - 3.1
WNY-122	DW	X			08/16/17	0935	1	X	7.87	3.4	24.8	
WNY-166	DW	X			08/16/17	0816	1	X	7.69	3.1	24.9	
WNY-220	DW	X			08/16/17	1130	1	X	7.93	2.3	25.9	
WNY-118	DW	X			08/16/17	1030	1	X	7.87	3.0	24.9	
WNY-175	DW	X			08/16/17	1105	1	X	7.65	0.37	24.7	
WNY-212	DW	X			08/16/17	0908	1	X	7.87	2.6	25.1	
WNY-218	DW	X			08/16/17	0839	1	X	7.89	2.9	25.6	

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive	Sample Disposition <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive				
Number of Containers: <u>8</u>	Sampled By (signature) <u>Gayan Kularathne</u>	Printed Name/Affiliation <u>Gayan Kularathne / IEI</u>	Date/Time <u>08/16/17 1305</u>	Received By (signature) <u>Raven Branch</u>	Printed Name/Affiliation <u>Raven Branch / WDI</u>
Cooler Number: <u>D. 3°C</u>	Relinquished By (signature) <u></u>	Printed Name/Affiliation <u></u>	Date/Time <u></u>	Received By (signature) <u></u>	Printed Name/Affiliation <u></u>
Temp upon receipt (°C): <u>0.3°C</u>	Relinquished By (signature) <u></u>	Printed Name/Affiliation <u></u>	Date/Time <u></u>	Received for Lab By (signature) <u></u>	Printed Name/Affiliation <u></u>
Sample Received on Ice or Refrigerated from Client: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No					
Radiation Scan Acceptable: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No					

* Please notify lab prior to drop off.

** Surcharge May Apply to add'l QC Packages

*** Sampler certification ID needed for some agencies.

**** Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Instructions for completing the Chain of Custody Record

17H1221